## What is claimed is:

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1. An online medical information management method applied to a medical information providing system, comprising the acts of:

- (1) when a physician terminal 20 connected to the medical information providing system requests a medical information management service for a physician from through an Internet or an Intranet, a controller 12 performing an authentication procedure for the request;
- (2) when it is determined by the authentication procedure that the request has been made by an authenticated user, the controller 12 transmitting a physician's web screen to the physician terminal 20, the physician's web screen comprising at least one block selected from the group consisting of a user information display block 10, a My menu block 120, a main menu block 130, a patient information view block 140, and a patient information input block 150;
- (3) when a patient to be cared for is selected, the controller 12 displaying information in the user information display block 10, the information including at least one information item selected from the group consisting of patient identification, department concerned, primary care physician, diagnosis, and operation;
- (4) when at least one information item selected from the group consisting of new outpatient, outpatient progress, new inpatient, admission progress, ask for referral, operation record, discharge record, medical certificate/request, form, and psychiatric findings is input through the patient information input block 150, the controller 12 storing the input information together with the patient information displayed in the user information display block 10; and
- (5) when a request to view at least one information item selected from the group consisting of new outpatient, outpatient progress, examination query, ask for

referral, form, new inpatient, admission progress, operation record, and discharge record is input through the patient information view block 140, the controller 12 retrieving pertinent information among the information items stored in act (4) and outputting the retrieved information through the patient information view block 140.

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2. The method of claim 1, wherein the user information display block 10 displays at least one selected from the group consisting of an attending doctor menu item for identifying and registering a physician other than a primary care physician, if any, a Medication menu item for check information on medicines prescribed for the patient, a patient information menu item for checking detailed identification information for the patient, an alert menu item for inputting or viewing special status information on the patient, and a reminder menu item for inputting or viewing matters to be attended in caring the patient.

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The method of claim 1, further comprising the acts of:

(6) when the physician' web screen is output and simultaneously an order input menu item is selected, the controller 12 displaying an order input window 170 for inputting an order for the patient on the physician terminal 20 and storing the order input through the order input window 170; and

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- (7) when there is a request to view the order input through the patient information view block 140, the controller 12 transmitting the stored order to the physician terminal 20 to be displayed.
  - The method of claim 1, further comprising the act of:
- (8) when there is a request for view nursing notes input through the patient

information view block 140, the controller 12 displaying in the patient information view block 140 the nursing notes input and stored through a nurse terminal 30.

5. The method of claim 1, wherein the information items input through the patient information input block 150, including new outpatient, outpatient progress, new inpatient, admission progress, ask for referral, operation record, discharge record, medical certificate/request, form, and psychiatric findings, are configured to allow the physician to selectively check or to directly input the same.

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- 10 6. The method of claim 1, wherein the patient information displayed on the patient information view block 140 is configured to output pertinent content in an in chronological order.
  - 7. The method of claim 1, wherein the patient information input block 150 for inputting the information on new outpatient and new inpatient information displays at least one menu item selected from the group consisting of chief complaint (CC), present illness (PI), past history1 (PHx1), past history2 (PHx2), review of systems (ROS), physical examination (PE) and treatment plan (A/P).
- 8. The method of any one of claims 1 through 7, wherein when the information input through the physician's web screen is stored and there is a request for the stored information from at least one terminal selected from the physician terminal 20, the nurse terminal 30, the clinical laboratory staff terminal 40, and the administrative staff terminal 50, make a request for the stored information when the request has been made by a the user authenticated to have a viewing right.

9. An online medical information management method applied to a medical information providing system, comprising the acts of:

(1) when a nurse terminal 30 connected to the medical information providing system requests a medical information management service for a nurse through the Internet or Intranet, a controller 12 performing an authentication procedure for the request;

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- (2) when it is determined by the authentication procedure that the request has been made by an authenticated user, the controller 12 transmitting a nurse's web screen to the nurse terminal 30, the nurse's web screen comprising at least one block selected from the group consisting of a user information display block 24, a My menu block 220, a main menu block 230, a patient selection block 240, and a patient information input/output block 250;
- (3) when a patient to be cared for is selected, the controller 12 displaying information in the user information display block 24, the information including at least one information item selected from the group consisting of patient identification, department concerned, primary care physician, diagnosis, and operation; and
- (4) when there is a request for activating at least one menu item of the 'My menu' block 220 selected from the consisting of order execution, nursing notes, clinical observation, serious case nursing note, nursing activity execution, initial nursing information, post discharge nursing plan, pre-operation nursing status checklist, nursing note and nursing activity query, patient position check, medication issuance, diet issue and review, examination result review, and discharge process, the controller 12 outputting the pertinent content to the patient information input/output block 250, storing the information input through the patient information

input/output block 250 therein, and outputting the requested information through the patient information input/output block 250 when there is a request for outputting the menu items,

the patient selection block 240 displaying a first patient selection button 240-1 for activating patient selection, a second patient selection button 240-2 displayed in different types according to the menu item selected by the first patient selection button 240-1, and a patient list 240-3 for displaying a list of patients according to the menu item selected by the second patient selection button 240-2.

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- displays at least one selected from the group consisting of an attending doctor menu item for identifying and registering a physician other than a primary care physician, when a physician is designated, a medication menu item for check information on medicines prescribed for the patient, a patient information menu item for checking detailed identification information for the patient, an alert menu item for inputting or viewing special status information on the patient, and a reminder menu item for inputting or viewing or viewing reminders to care for the patient.
- 11. The method of claim 9, further comprising the act of: (5) when an order execution menu item 220a is selected from the 'My menu' block 220, the controller 12 displaying the order input and stored by the physician on the patient information input/output block 250.
  - 12. The method of claim 9, further comprising the act of: (6) when a nursing note menu item 220b is selected from the 'My menu' block 220, the

controller 12 displaying items to be input to the nursing note, and when there is a request for storing the selected item among the items, displaying the selected item and outputting the same through the patient information input/output block.

- 13. 5
- The method of claim 9, further comprising the act of: (7) when a clinical observation menu item 220c is selected from the 'My menu' block 220, the controller 12 displaying the pertinent screen on the patient information input/output block 250, storing the clinical observation information input through the input/output block 250 and outputting the same through the patient information input/output block.

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- The method of any one of claims 9 through 13, wherein when the 14. information input through the nurse's web screen is stored and there is a request for the stored information from at least one selected from the physician terminal 20, the nurse terminal 30, the clinical laboratory staff terminal 40, and the administrative staff terminal 50, the information is transmitted for viewing When the request has been made from the user authenticated to have a viewing right.
- An online medical information management method applied to a 15. medical information providing system, comprising the acts of:

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(1) when there is a request for a medical information management service for clinical laboratory staff from at least one selected from the physician terminal 20, the nurse terminal 30, and the clinical laboratory staff terminal 40 connected to the medical information providing system through an Internet or an Intranet, a controller 12 performing an authentication procedure for the request;

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(2) when it is determined by the authentication procedure that the request

has been made by an authenticated user, the controller 12 transmitting a clinical laboratory staff's web screen to the requesting terminal, the clinical laboratory staff's screen including at least one block selected from the group consisting of a user information display block, a main menu block, and a patient information input/output block;

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- (3) when a patient to be reviewed is selected, the controller 12 displaying information on the user information display block, the information including at least one information item selected from the group consisting of patient identification, department concerned, primary care physician, diagnosis, operation, examination history, consultation history, treatment history, treatment room and examining room; and
- (4) the controller 12 outputting pertinent information according to the content of the menu item selected from the main menu block to the patient information input/output block and storing the examination or treatment related information input through the patient information input/output block, and outputting the examination or treatment related information when there is a request for reviewing the information,

wherein the clinical laboratory staff's web screen in act (2) is at least one selected from a web screen for information on function tests assigned to the respective departments concerned, a web screen for a rehabilitation service for physical therapy and occupational therapy, and a web screen for radiotherapy.

16. The method of claim 15, wherein when the clinical laboratory staff's web screen is a web screen for displaying information on function tests assigned to the respective departments concerned, the main menu block 330a comprises menu items selected from the group consisting of order view, reservation query,

reservation, registration, execution, interpretation and statistics related to examination, examination code management, reservation and registration of laboratory standard information, and a clinical laboratory registration menu, the method further comprises the act of (5) the controller 12 outputting the information corresponding to the selected menu item to the patient information input/output block 350a and storing the input information input through the patient information input/output block.

- 17. The method of claim 15, wherein when the clinical laboratory staff's web screen is a web screen for displaying information on rehabilitation, the method further comprises the act of (6) the main menu block 330b including at least one menu item selected from the group consisting of an outgoing patient query menu, a patient identification query menu, a registration menu, a therapist allocation menu, a treatment schedule query menu, and a statistics menu, and the controller 12 outputs the information corresponding to the selected menu item to the patient information input/output block 350b and stores the input information input through the patient information input/output block.
- 18. The method of claim 15, wherein when the clinical laboratory staff's
  20 web screen is a web screen for displaying information on health examination for
  medical checkup for health promotion, the method further comprises the act of (7)
  the controller 12 outputting a plurality of health examination menu forms in a
  standard type of package, receiving and storing reservation registrations and
  outputting contents corresponding to the registrations, and receiving and storing data
  25 resulting after checking whether the health examination has been executed.

19. The method of claim 15, wherein when the clinical laboratory staff's web screen is a web screen for displaying information on the treatment result by radiotherapy, the method further comprises the act of (8) the controller 12 outputting information on a patient to be subjected to radiotherapy, and receiving and storing data resulting after checking whether the radiotherapy has been executed.

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- 20. The method of any one of claims 15 through 19, wherein information displayed when the menu items are selected is information input through at least one terminal selected from the physician terminal 20, the nurse terminal 30, the clinical laboratory staff terminal 40, and the administrative staff terminal 50.
- 21. An online medical information management method applied to a medical information providing system, comprising the acts of:
- (1) managing medical information necessary for patient care by a controller 12 transmitting a physician's web screen, a nurse's web screen, and a clinical laboratory staff's web screen for medical information management to each of a physician terminal 20, a nurse terminal 30, and a clinical laboratory staff terminal 40, which are connected to the service providing system through an Internet or an Intranet, and storing the medical information to allow the user to share the information input through the respective terminals through the web screens;
- (2) when there is a request for viewing decision support information through a menu item supplied from the at least one of the physician's web screen, the nurse's web screen, and the clinical laboratory staff's web screen, the controller 12 supplying pertinent decision support information retrieved from the decision support

information stored in a decision support management unit 18 to the requesting user through the corresponding decision support web screen;

(3) the controller 12 storing information input by at least one user selected from a physician, a nurse or a clinical laboratory staff member through the physician's decision support web screen and, when it is necessary to convert the input information based on prestored patient information, performing a pertinent calculation and supplying the calculation result through the decision support web screen; and

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- (4) the controller 12 allowing the information input through the decision support web screen to be viewed through the user's web screen and issuing an alert message to the user's web screen when the information input through the user's web screen is inappropriate information with respect to the decision support information stored in the decision support management unit 18, the decision support information including at least one information item selected from the group consisting of anticancer agent information, antibiotics information, blood transfusion prescription information, and medicine information.
- 22. The method of claim 21, wherein the decision support web screen for displaying various types of information on am anticancer agent contains at least one submenu item selected from the group consisting of Select Regimen, View clinical laboratory test results and Modify Regimen, Prescribe Regimen, Prescribe antiemetics, and Discharge plan, the anticancer agent web screen performing at least one function selected from the group consisting of management of an anticancer agent protocol, issuance of a prescription for the anticancer agent, query of information on related medications, and access to a patient's blue sheet.

23. The method of claim 21, wherein the antibiotics web screen of the decision support web screen for providing a variety of information related to antibiotics allows antibiotic-related information including type and dose of antibiotics used for specific illnesses or indications to be managed in a database and performs functions of controlling/managing actual prescriptions issued.

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- The method of claim 21, wherein the blood transfusion prescription 24. information screen supplies the user with various types of information including detailed information on blood components to be transfused to the patient on a quantity of blood components suitable for the patient's status, receives and stores transfusion-related orders, and supplies the user with order contents through the user's web screen when there is a request for the orders.
- The method of claim 21, wherein the medication information web 15 25. screen of the decision support web screen, for inputting and viewing a variety of medication information, displays at least one information item selected from the group consisting of brand name, generic name, dose, dosage, instructions for use, unit, pharmaceutical company, dosage form, insurance price and code, and information on dose limitations, medication code, medication interaction code, 20 interacting medication code, medication contraindication code, contraindicating item code, allergy code, allergen code, insurance stipulations that may contain period of medication prescription, information on dosage, information on names of medication and diagnosed illness, and information on order of medication use, each of the information items being categorized into information on prescription for medication,

information on medication warning, information on insurance stipulations, and information on medication classification.

26. The method of any one of claims 21 through 25, wherein when a user authorized for management requests through the user's web screen at least one function selected from the group consisting of correcting, deleting and editing of the decision support information and registration of new decision support information, the method further comprising the stepact of (5) displaying the function on the decision support web screen for a manager.